

DATA SHEET



RF Cable

HCAHY(YZ)-50-5 (1/4" S)



Description

Standard cable	
1/4" Superflex PE jacket	HCAHY-50-5
Fire retardant cable	
1/4" Superflex Fire retardant jacket	HCAHYZ-50-5

VSWR	400-500MHz	≤1.10
	800-1000MHz	≤1.10
	1700-2200MHz	≤1.10
	0 ~ 3000MHz	≤1.15
	3000 ~ 6000MHz	≤1.28

Mechanical Performance

Inner conductor	10A CCA	1.9±0.04mm
Dielectric	Foamed PE	4.8±0.2mm
Outer conductor	Helical Corrugated Cu tube	6.4±0.15mm
	Thickness	0.18mm
Outer Jacket	PE	7.5±0.2mm
	FRNC	7.5±0.2mm
Min. Bending Radius(single)		12mm
Min. Bending Radius(multiple)		25mm
Number of bends(minimum)		15
Tensile strength		680N
Operating temperature	PE	-55°C ~ +85°C
	FRNC	-40°C ~ +85°C
Installation temperature	PE	-40°C ~ +60°C
	FRNC	-25°C ~ +60°C
Storage Temperature	PE	-70°C ~ +85°C
	FRNC	-40°C ~ +85°C

Attenuation and Average Power

Frequency (MHz)	Attenuation (dB/100m)	Average Power (kw)
450	12.21	0.52
800	17.23	0.42
1000	19.41	0.37
1800	26.08	0.25
2200	29.70	0.24
2400	31.42	0.21
3000	34.89	0.19
4000	41.39	0.17
6000	52.18	0.14
8000	61.78	0.12

Standard Conditions:

Typical attenuation at sea level with 20°C, maximum value shall be 105% of the nominal attenuation value / Power rate at 40°C

Electrical Performance

Impedance	50±1Ω
Max. Frequency	20.4GHz
Cutoff Frequency	25GHz
Velocity of Propagation	82%
Peak Power	8.2kW
Insulation resistance	>5000MΩ·km
Dielectric strength	1600V
Capacitance	80pF/m
DC resistance inner conductor	9.95Ω/km
DC resistance outer conductor	7.7Ω/km
Intermodulation (IM3, 2 x 20 W) @ 910MHz and 1800MHz (static and dynamic)	≤ -160 dBc

Package:

Package method	Dimension	Length of cable
Drum Package	730×730×410mm	500m/drum
Carton Package	495×495×280mm	200m/carton

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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